

POLYURETHANE ELASTIC FIBER NONWOVEN FABRIC
AND ITS PRODUCTION
AND SYNTHETIC LEATHER USING THE SAME

ABSTRACT OF THE DISCLOSURE

A polyurethane elastomer fiber non-woven fabric comprising polyurethane elastomer fiber filaments being melt-bonded with one another, which has a tensile elongation of 100% or more, a 50% elongation recovery of 75% or more and a tear strength per METSUKU of 5.5 gf or more. The non-woven fabric can be prepared by a method comprising providing a thermoplastic polyurethane elastomer having Shore hardness A of 92 or more, drying the elastomer to a water content of 150 ppm or less, and melt-spinning and at the same time spraying it together with a high speed gas stream so as to deposit and laminate into a sheet form. A synthetic leather using the non-woven fabric is also provided. The non-woven fabric has not only excellent elasticity but also high tear strength.

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